

North Central Missouri Water Supply Lake

RESOP Run:

Demand = Optimized

Demand = 5.75 MGD

Demand = 6.75 MGD

June 14, 2004

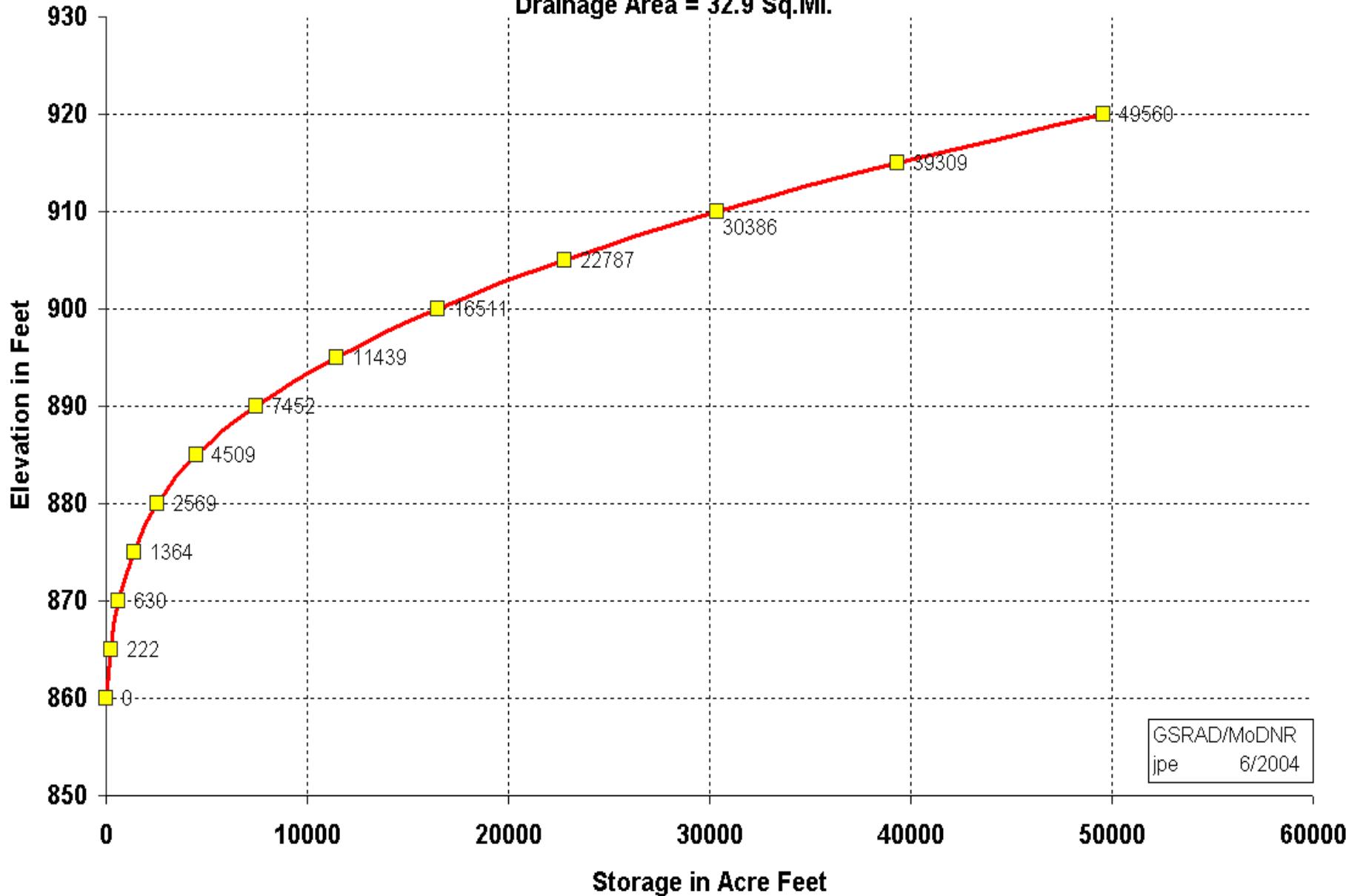


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Natural Resources
Geological Survey and Resource Assessment Division

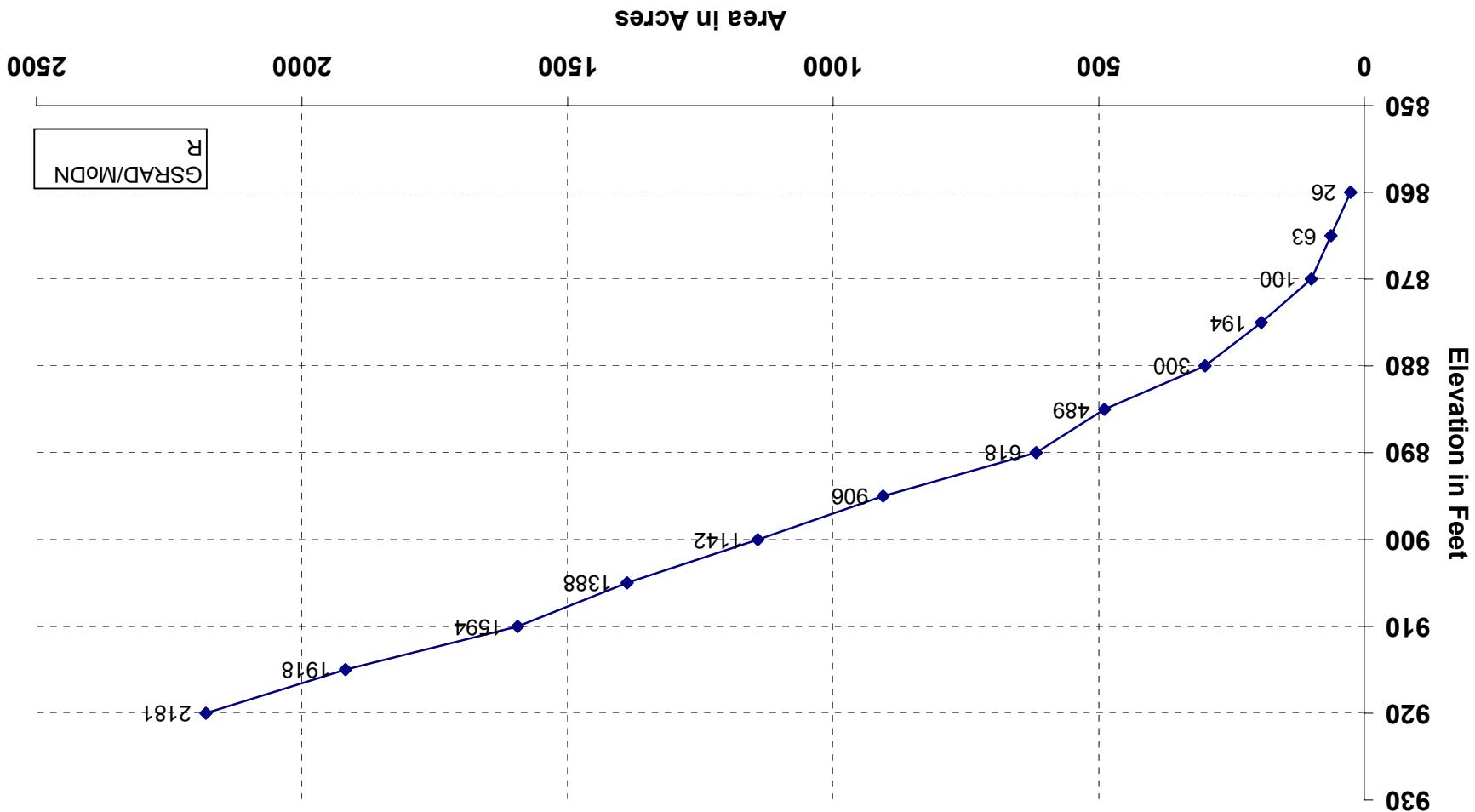
North Central Missouri Water Supply

East Locust Site

Drainage Area = 32.9 Sq.Mi.

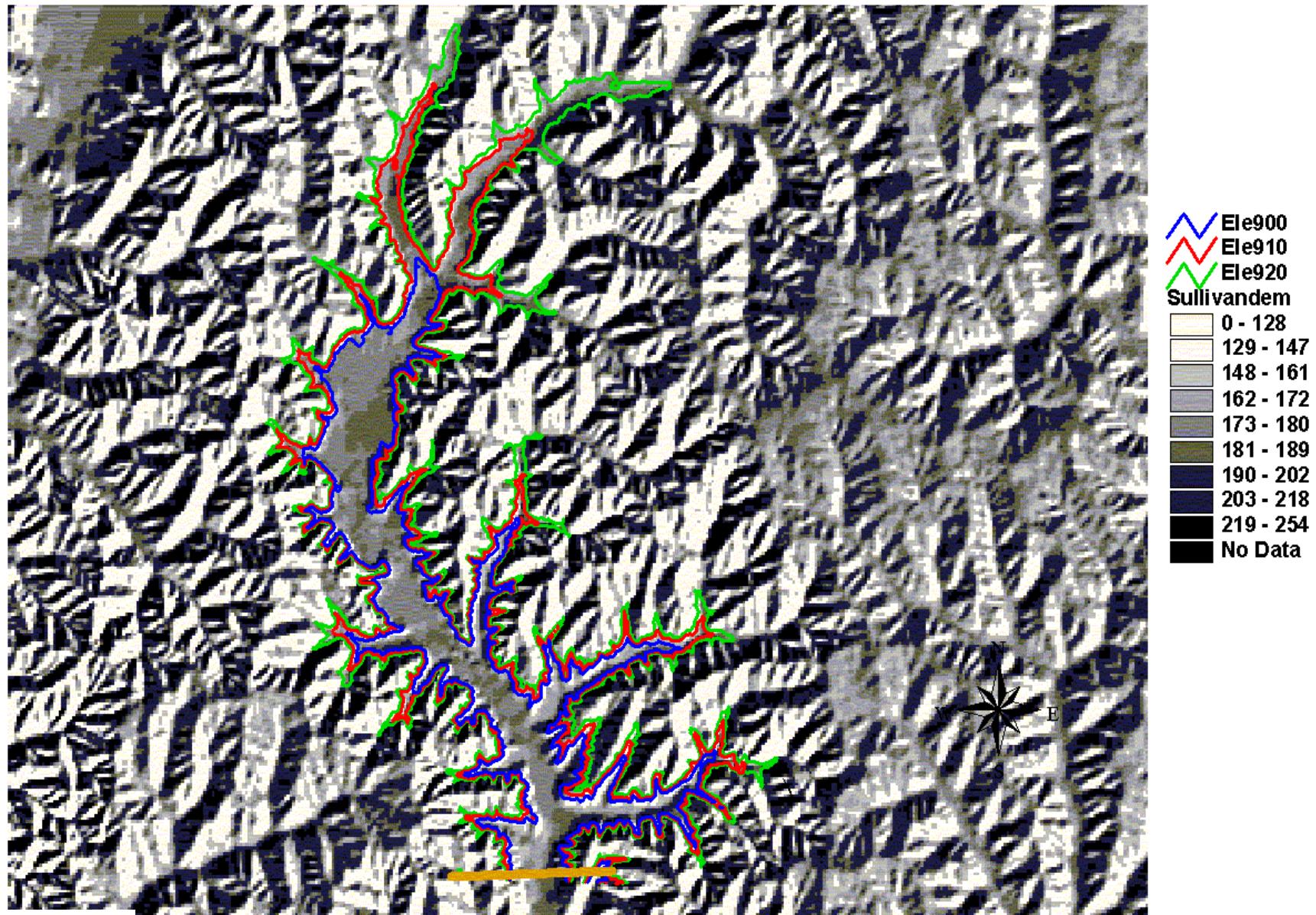


GSRAD/MoDNR
jpe 6/2004

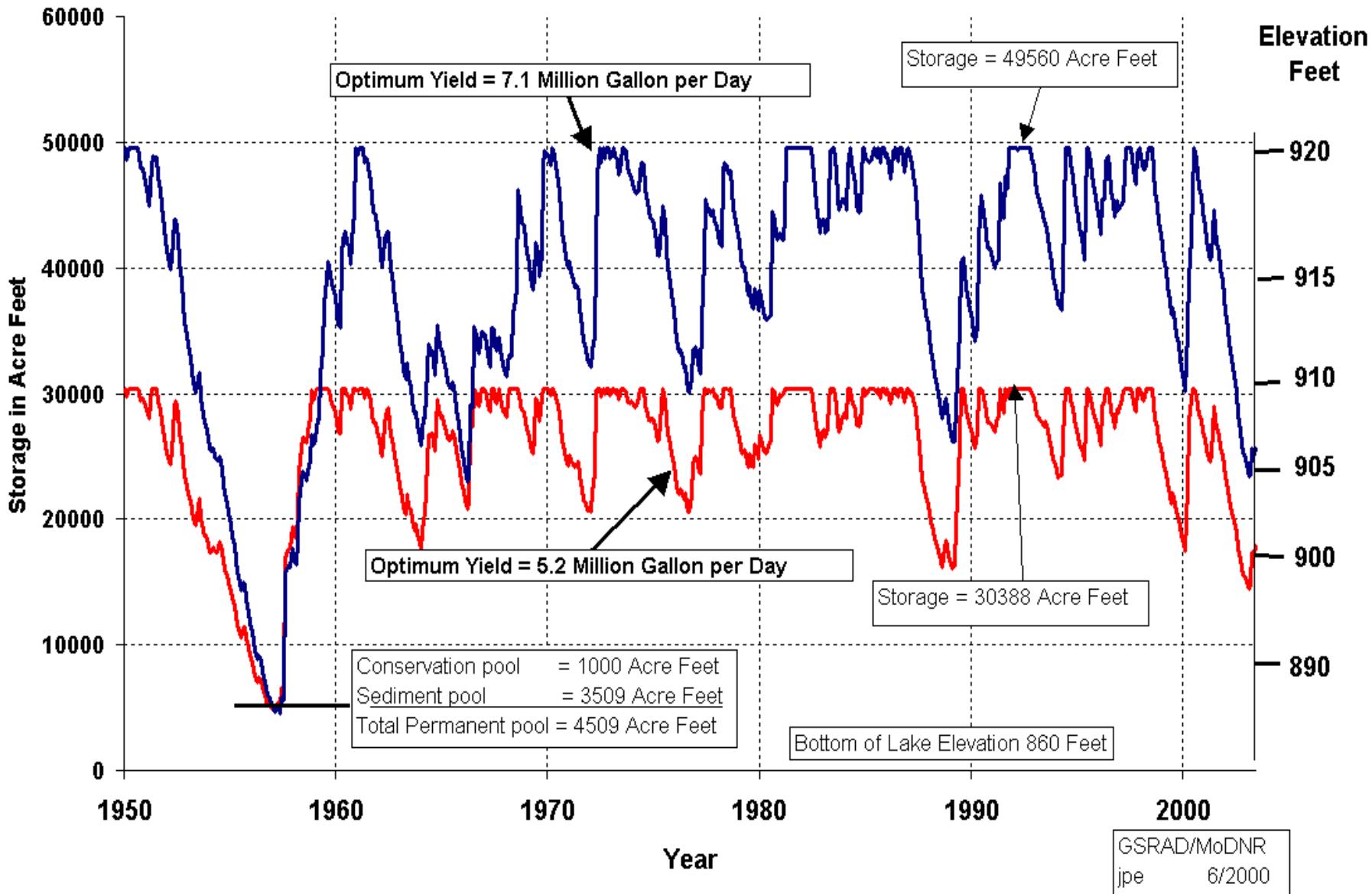


North Central Missouri Water Supply
East Locust Creek
Drainage Area 32.9 Sq. Mi.

NCM New Lake at Various Elevations



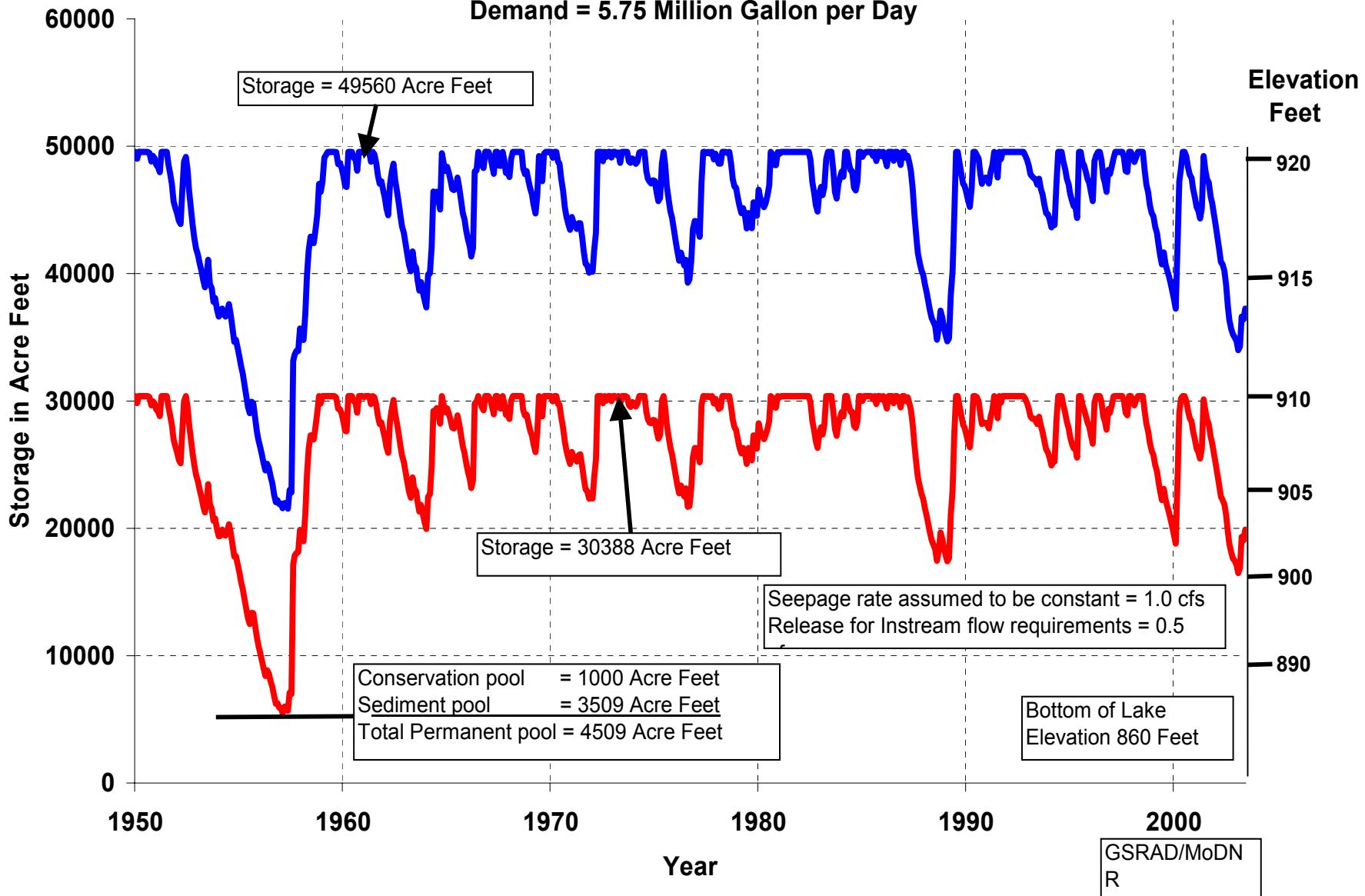
North Central Missouri Water Supply
Spillway Elevation 910 and 920 Feet
Optimum Yield Runs



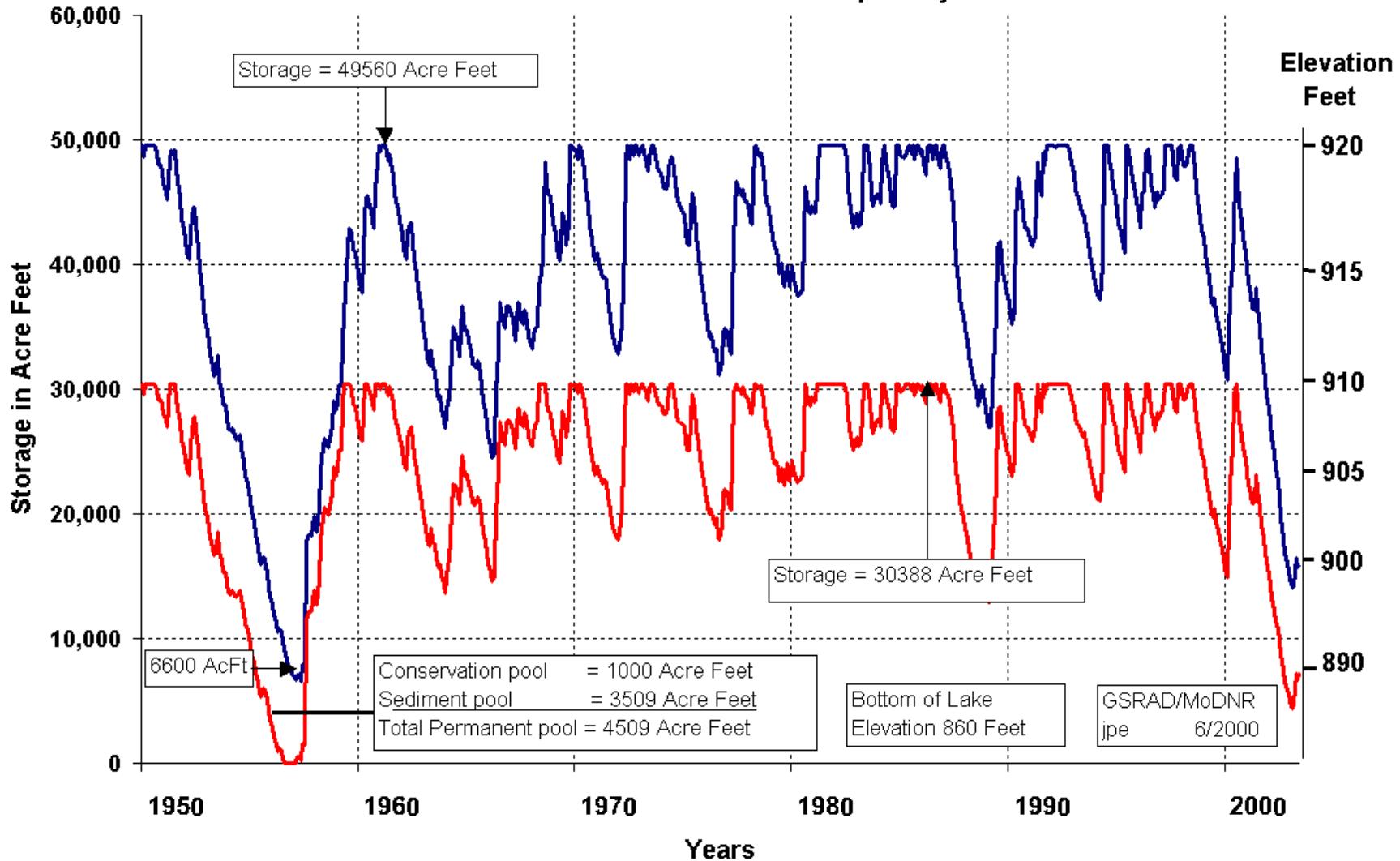
North Central Missouri Water Supply

Spillway Elevations 910 and 920 Feet

Demand = 5.75 Million Gallon per Day

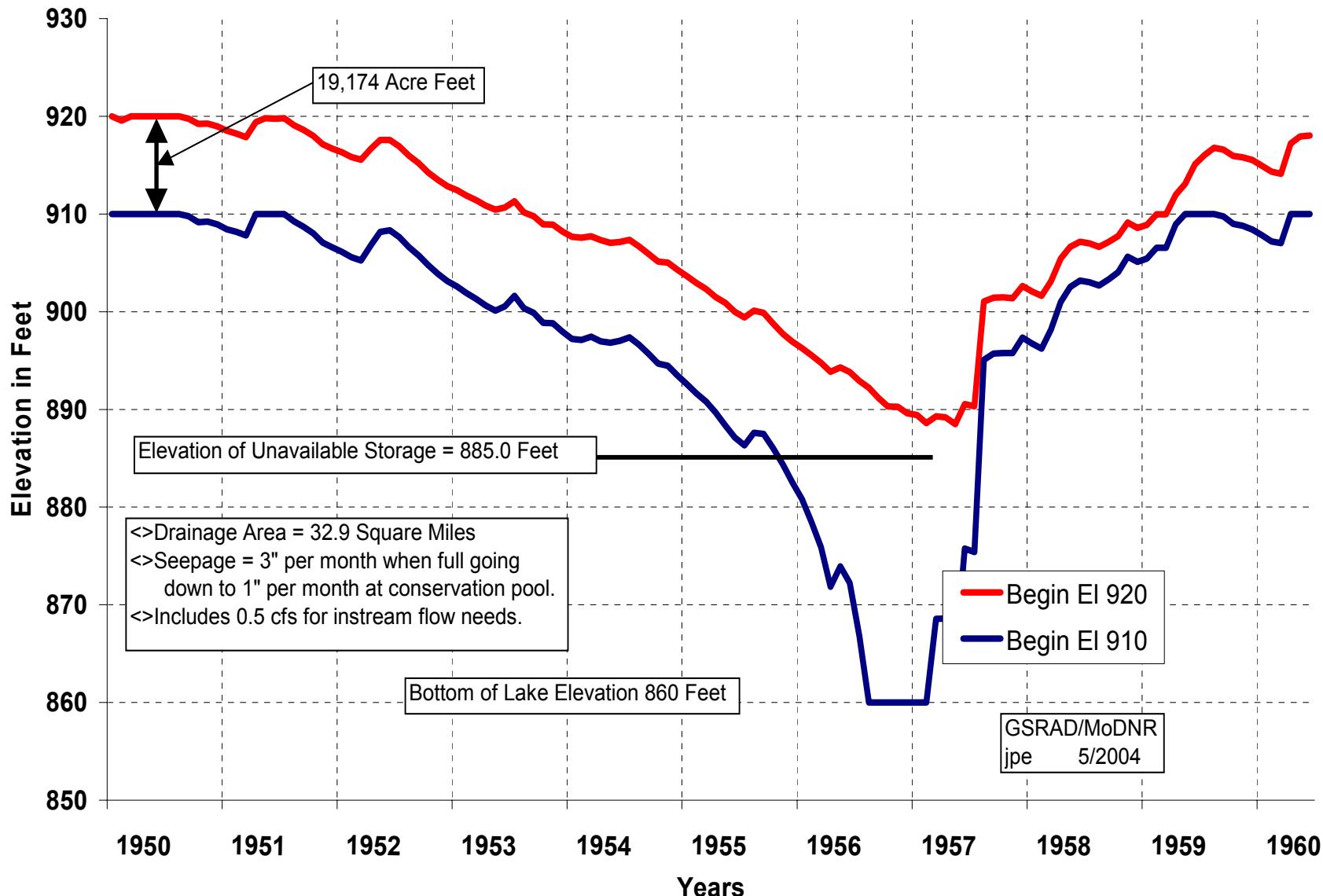


North Central Missouri Water Supply District
Spillway Elevations 910 and 920 Feet
Demand = 6.75 Million Gallon per Day

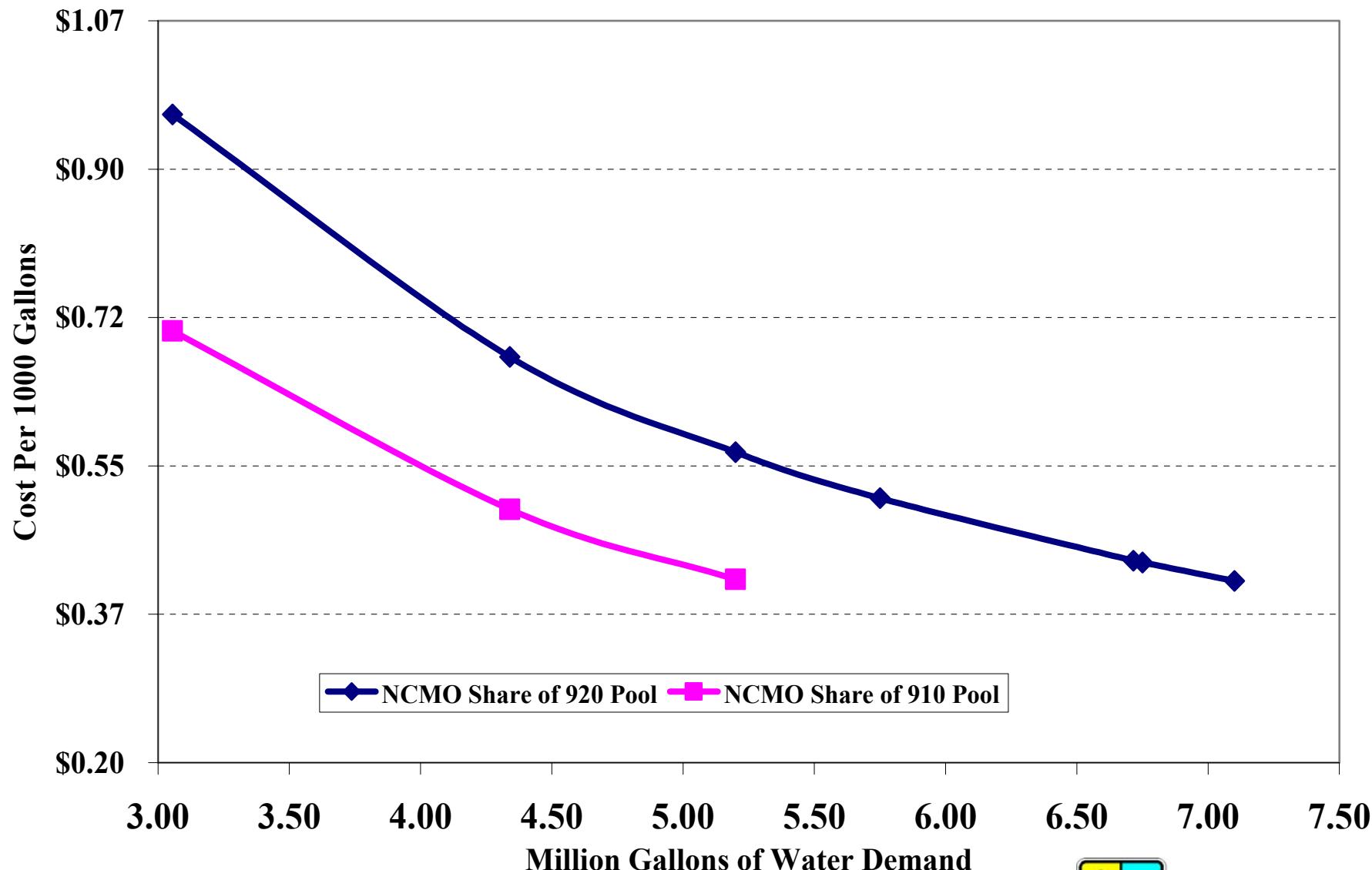


North Missouri Water Supply

Demand = 6.75 MGD

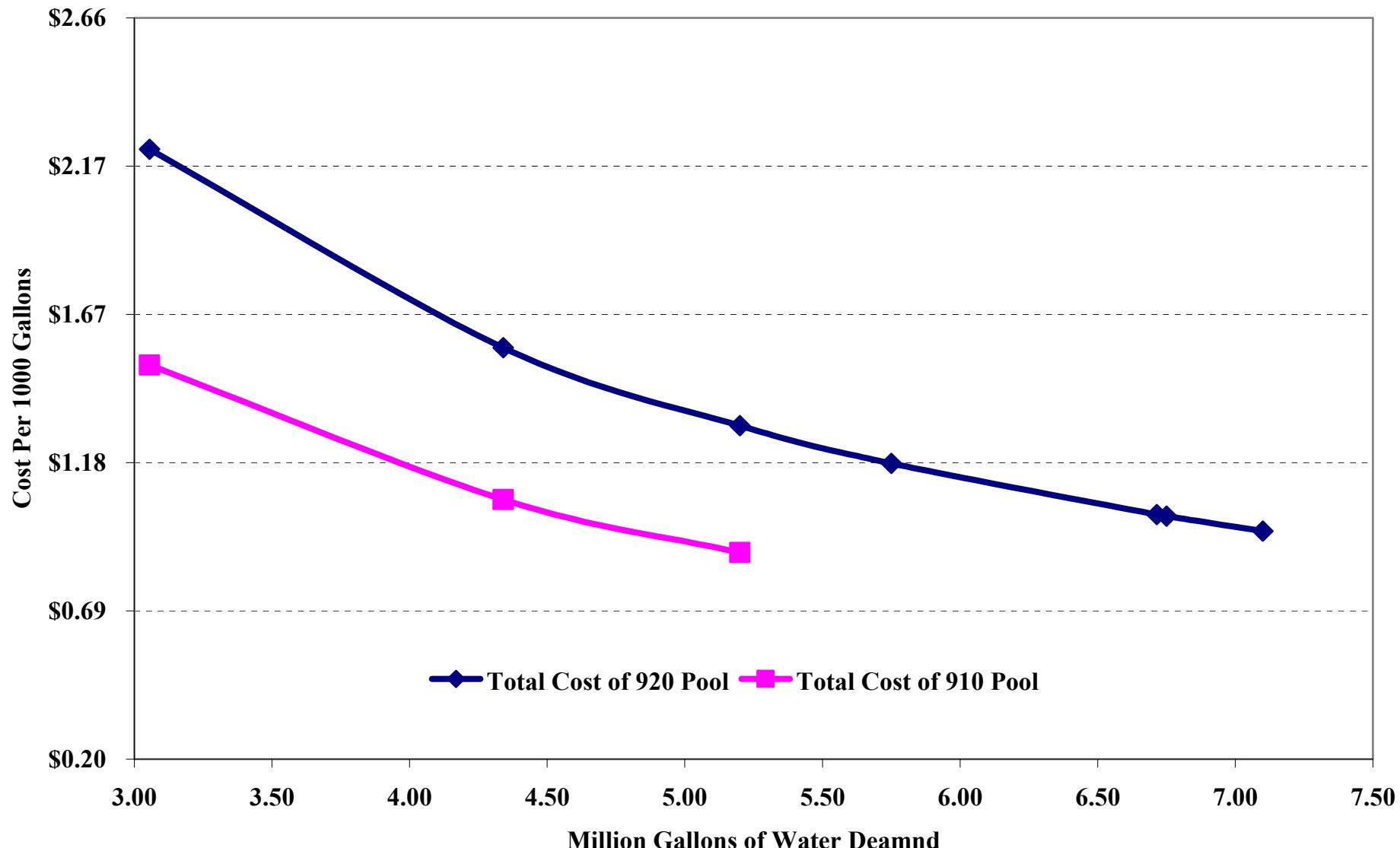


North Central Missouri Water Supply Project: Daily Cost per Thousand Gallons of Raw Water



Missouri Department of
Natural Resources
Geological Survey and Resource Assessment Division

North Central Missouri Water Supply Project: Daily Cost per
Thousand Gallons of Raw Water



	Estimate for 920' Lake		Estimate for 910' Lake	
	Total Cost w/o a grant	Local Share	Total Cost w/o a grant	Local Share
Loan amount	\$31,552,368.00	\$13,652,380.00	\$21,392,500.00	\$10,043,125.00
Interest rate	4.75%	4.75%	4.75%	4.75%
number of years	20 years	20 years	20 years	20 years
Loan and interest	\$49,569,064.99	\$21,448,016.57	\$33,607,817.42	\$15,777,843.23
Annual Payment	\$2,478,453.25	\$1,072,400.80	\$1,680,390.87	\$788,892.16
	920 ft Elevation (\$31.55 million)		910 ft Elevation (\$21.39 million)	
Water Demand	Total Cost	Local Share	Total Cost	Local Share
1000 Gal/Day	Cost per 1000 Gallon of Water	Cost per 1000 Gallon of Water	Cost per 1000 Gallon of Water	Cost per 1000 Gallon of Water
3,055	\$2.22	\$0.96	\$1.51	\$0.71
4,340	\$1.56	\$0.68	\$1.06	\$0.50
5,200	\$1.30	\$0.56	\$0.88	\$0.42
5,750	\$1.18	\$0.51	\$0.80	\$0.38
6,715	\$1.01	\$0.44	\$0.69	\$0.32
6,750	\$1.01	\$0.43	\$0.68	\$0.32
7,100	\$0.96	\$0.41	\$0.65	\$0.30